

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
19 May 2005 (19.05.2005)

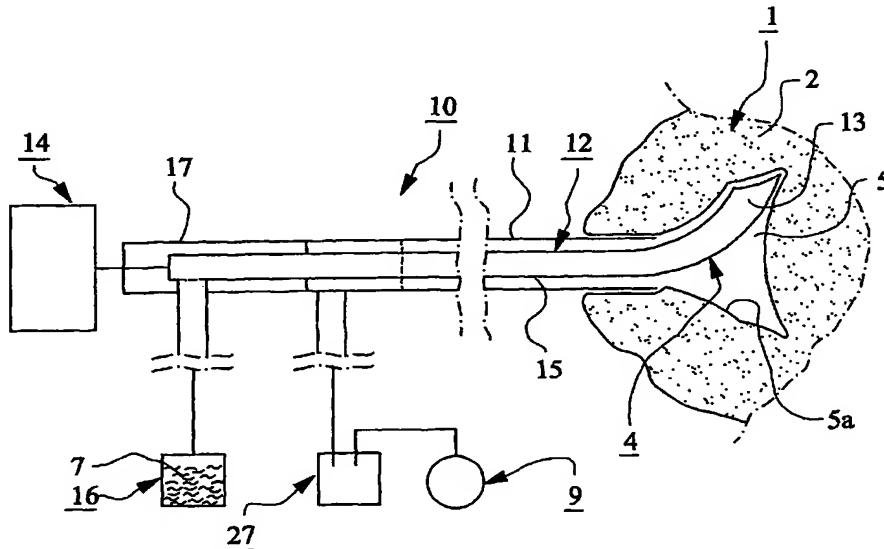
PCT

(10) International Publication Number
WO 2005/044154 A1

- (51) International Patent Classification⁷: **A61F 2/46**
- (21) International Application Number:
PCT/SE2004/001626
- (22) International Filing Date:
10 November 2004 (10.11.2004)
- (25) Filing Language: Swedish
- (26) Publication Language: English
- (30) Priority Data:
0302983-2 11 November 2003 (11.11.2003) SE
- (71) Applicants (*for all designated States except US*): **BONE SUPPORT AB** [SE/SE]; Schelevägen 19A, S-223 70 Lund (SE). **TEG HOLDING S.A.** [LU/LU]; 3-5, Place Winston Churchill, L-1340 Luxembourg (LU).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **LIDGREN, Lars** [SE/SE]; Bredgatan 9B, S-221 21 Lund (SE). **LUNDGREN, Torgny** [SE/SE]; Villavägen 18, S-241 31 Eslöv (SE). **ARVIDSSON, Pär** [SE/SE]; Lyftvägen 31, S-240
- 10 Dalby (SE). **JÖNSSON, Sven** [SE/SE]; Poppelvägen 8, S-245 44 Staffanstorp (SE).
- (74) Agents: **WAGNER, Heinz et al.**; H Wagner & Co AB, Norra Vallgatan 72, S-211 22 Malmö (SE).
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: DEVICE FOR PROVIDING SPONGY BONE WITH BONE SUBSTITUTE AND/OR BONE REINFORCING MATERIAL, BONE SUBSTITUTE AND/OR BONE REINFORCING MATERIAL AND METHOD



WO 2005/044154 A1

(57) Abstract: The present invention relates to a device for providing spongy bone with bone substitute and/or bone reinforcing material, wherein at least one perforating device (4) is provided for making at least one hole (5) in the spongy bone (1) and wherein at least one flushing or rinsing device (6) is provided for flushing or rinsing the hole (5) with a rinsing agent (7). At least one vacuum source (9) is provided for generating a vacuum in the hole (5) in the spongy bone (1) for sucking and/or facilitating insertion or feeding of the bone substitute and/or bone reinforcing material (3) into said spongy bone (1). The invention also relates to bone substitute and/or bone reinforcing material and methods in connection with the invention.



Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.